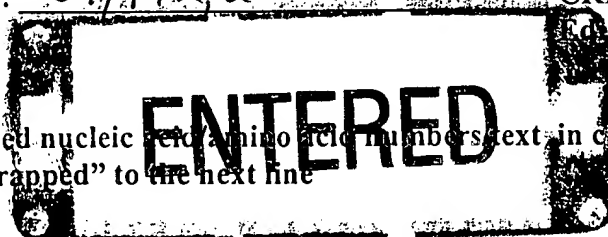


1600 #17

# CRF Errors Edited by the STIC Systems Branch

Serial Number: 09/942,252C

CRF Edit Date: 8/4/04  
Edited by: [Signature]



Realigned nucleic acid/amino acid numbers text in cases where the sequence text "wrapped" to the next line

Corrected the SEQ ID NO. Sequence numbers edited were:

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

Deleted: invalid beginning/end-of-file text ; page numbers

Inserted mandatory headings/numeric identifiers, specifically:

Moved responses to same line as heading/numeric identifier, specifically:

Other: Sequence 16 - corrected amino acid numbering



1600

## RAW SEQUENCE LISTING

DATE: 08/04/2004

PATENT APPLICATION: US/09/942,252C

TIME: 16:05:17

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\08042004\I942252C.raw

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3 <110> APPLICANT: Messier, Walter
4   Sikela, James M
6 <120> TITLE OF INVENTION: Methods to Identify Polynucleotide and Polypeptide
7   Sequences Which May Be Associated with Physiological
8   and Medical Conditions
10 <130> FILE REFERENCE: GENO 200.2/CIP
C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/942,252C
C--> 13 <141> CURRENT FILING DATE: 2001-08-28
15 <150> PRIOR APPLICATION NUMBER: 09/591,435
16 <151> PRIOR FILING DATE: 2000-06-09
18 <150> PRIOR APPLICATION NUMBER: 09/240,915
19 <151> PRIOR FILING DATE: 1999-01-29
21 <150> PRIOR APPLICATION NUMBER: 60/073,263
22 <151> PRIOR FILING DATE: 1998-01-30
24 <150> PRIOR APPLICATION NUMBER: 60/098,987
25 <151> PRIOR FILING DATE: 1998-09-02
27 <160> NUMBER OF SEQ ID NOS: 30
29 <170> SOFTWARE: PatentIn Ver. 2.0
31 <210> SEQ ID NO: 1
32 <211> LENGTH: 1518
33 <212> TYPE: DNA
34 <213> ORGANISM: Homo sapiens
36 <400> SEQUENCE: 1
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39 tgcagcacct cctgtgacca gcccaagttg ttgggcatag agaccccggt gcctaaaaag 120
41 gagttgctcc tgcctgggaa caaccggaag gtgtatgaac tgagcaatgt gcaagaagat 180
43 agccaaccaa tgtgctattc aaactgccct gatgggcagt caacagctaa aaccttcttc 240
45 accgtgtact ggactccaga acgggtggaa ctggcacccc tcccccttg gcagccagt 300
47 ggcaagaacc ttaccctacg ctgccaggtg gaggggtggg caccgccggc caacctcacc 360
49 gtggtgctgc tccgtgggga gaaggagctg aaacgggagc cagctgtggg ggagcccgt 420
51 gaggtcacga ccacggtgct ggtgaggaga gatcaccatg gagccaattt ctcgtgccgc 480
53 actgaactgg acctgcggcc ccaagggtg gagctgttg agaacacctc ggccccctac 540
55 cagctccaga cctttgtcct gccagcgact cccccacaac ttgtcagccc cggggtccta 600
57 gaggtggaca cgcaggggac cgtggtctgt tccctggacg ggctgttccc agtctcggag 660
59 gccaggtcc acctggcact gggggaccag aggttgaacc ccacagtcac ctatggcaac 720
61 gactccttct cggccaaggc ctacgtcagt gtgaccgcag aggacgaggg caccagcgg 780
63 ctgacgtgtg cagtaatact ggggaaccag agccaggaga cactgcagac agtgaccatc 840
65 tacagctttc cggcgcccaa cgtgattctg acgaagccag aggtctcaga agggaccgag 900
67 gtgacagtga agtgtgaggc ccaccctaga gccaaggtga cgctgaatgg ggttccagcc 960
69 cagccactgg gcccgagggc ccagctcctg ctgaaggcca cccagagga caacgggcgc 1020
71 agcttctcct gctctgcaac cctggaggtg gccggccagc ttatacaca gaaccagacc 1080
73 cgggagcttc gtgtcctgta tggccccga ctggacgaga gggattgtcc gggaaactgg 1140
75 acgtggccag aaaattccca gcagactcca atgtgccagg cttgggggaa cccattgccc 1200

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## RAW SEQUENCE LISTING

DATE: 08/04/2004

PATENT APPLICATION: US/09/942,252C

TIME: 16:05:17

Input Set : A:\PTO.AMC.txt

Output Set : N:\CRF4\08042004\I942252C.raw

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79 actcgagatc ttgagggcac ctacctctgt cgggccagga gcactcaagg ggaggtcacc 1320
81 cgcgaggtga ccgtgaatgt gctctcccc cggtatgaga ttgtcatcat cactgtggta 1380
83 gcagccgcag tcataatggg cactgcaggc ctcagcacgt acctctataa ccgccagcgg 1440
85 aagatcaaga aatacagact acaacaggcc caaaaaggga ccccatgaa accgaacaca 1500
87 caagccacgc ctccctga                                     1518
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91 <211> LENGTH: 1518
92 <212> TYPE: DNA
93 <213> ORGANISM: Pan troglodytes
95 <220> FEATURE:
96 <221> NAME/KEY: CDS
97 <222> LOCATION: (1)..(1518)
99 <400> SEQUENCE: 2
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101 Gln Thr Ser Val Ser Pro Pro Lys Val Ile Leu Pro Arg Gly Gly Ser
102 1 5 10 15
104 gtg cag gtg aca tgc agc acc tcc tgt gac cag ccc gac ttg ttg ggc 96
105 Val Gln Val Thr Cys Ser Thr Ser Cys Asp Gln Pro Asp Leu Leu Gly
106 20 25 30
108 ata gag acc ccg ttg cct aaa aag gag ttg ctt ctg ggt ggg aac aac 144
109 Ile Glu Thr Pro Leu Pro Lys Lys Glu Leu Leu Leu Gly Gly Asn Asn
110 35 40 45
112 tgg aag gtg tat gaa ctg agc aat gtg caa gaa gat agc caa cca atg 192
113 Trp Lys Val Tyr Glu Leu Ser Asn Val Gln Glu Asp Ser Gln Pro Met
114 50 55 60
116 tgc tat tca aac tgc cct gat ggg cag tca aca gct aaa acc ttc ctc 240
117 Cys Tyr Ser Asn Cys Pro Asp Gly Gln Ser Thr Ala Lys Thr Phe Leu
118 65 70 75 80
120 acc gtg tac tgg act cca gaa cgg gtg gaa ctg gca ccc ctc ccc tct 288
121 Thr Val Tyr Trp Thr Pro Glu Arg Val Glu Leu Ala Pro Leu Pro Ser
122 85 90 95
124 tgg cag cca gtg ggc aag gac ctt acc cta cgc tgc cag gtg gag ggt 336
125 Trp Gln Pro Val Gly Lys Asp Leu Thr Leu Arg Cys Gln Val Glu Gly
126 100 105 110
128 ggg gca ccc cgg gcc aac ctc acc gtg gtg ctg ctc cgt ggg gag aag 384
129 Gly Ala Pro Arg Ala Asn Leu Thr Val Val Leu Leu Arg Gly Glu Lys
130 115 120 125
132 gag ctg aaa cgg gag cca gct gtg ggg gag ccc gct gag gtc acg acc 432
133 Glu Leu Lys Arg Glu Pro Ala Val Gly Glu Pro Ala Glu Val Thr Thr
134 130 135 140
136 acg gtg ctg gtg gag aga gat cac cat gga gcc aat ttc tcg tgc cgc 480
137 Thr Val Leu Val Glu Arg Asp His His Gly Ala Asn Phe Ser Cys Arg
138 145 150 155 160
140 act gaa ctg gac ctg cgg ccc caa ggg ctg cag ctg ttt gag aac acc 528
141 Thr Glu Leu Asp Leu Arg Pro Gln Gly Leu Gln Leu Phe Glu Asn Thr
142 165 170 175
144 tcg gcc ccc cac cag ctc caa acc ttt gtc ctg cca gcg act ccc cca 576
145 Ser Ala Pro His Gln Leu Gln Thr Phe Val Leu Pro Ala Thr Pro Pro

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## RAW SEQUENCE LISTING

DATE: 08/04/2004

PATENT APPLICATION: US/09/942,252C

TIME: 16:05:17

Input Set : A:\PTO.AMC.txt

Output Set : N:\CRF4\08042004\I942252C.raw

146	180	185	190	
148	caa ctt gtc	agc ccc cgg gtc	cta gag gtg gac acg	cag ggg acc gtg 624
149	Gln Leu Val	Ser Pro Arg Val	Leu Glu Val Asp Thr	Gln Gly Thr Val
150	195	200	205	
152	gtc tgt tcc	ctg gac ggg ctg	ttc cca gtc tcg	gag gcc cag gtc cac 672
153	Val Cys Ser	Leu Asp Gly Leu	Phe Pro Val Ser	Glu Ala Gln Val His
154	210	215	220	
156	ctg gca ctg	ggg gac cag agg	ttg aac ccc aca	gtc acc tat ggc aat 720
157	Leu Ala Leu	Gly Asp Gln Arg	Leu Asn Pro Thr	Val Thr Tyr Gly Asn
158	225	230	235	240
160	gac tcc ttc	tcg gcc aag gcc	tca gtc agt gtg	acc gca gag gac gag 768
161	Asp Ser Phe	Ser Ala Lys Ala	Ser Val Ser Val	Thr Ala Glu Asp Glu
162	245	250	255	
164	ggc acc cag	cgg ctg acg tgt	gca gta ata ctg	ggg aac cag agc cgg 816
165	Gly Thr Gln	Arg Leu Thr Cys	Ala Val Ile Leu	Gly Asn Gln Ser Arg
166	260	265	270	
168	gag aca ctg	cag aca gtg acc	atc tac agc ttt	ccg gcg ccc aac gtg 864
169	Glu Thr Leu	Gln Thr Val Thr	Ile Tyr Ser Phe	Pro Ala Pro Asn Val
170	275	280	285	
172	att ctg acg	aag cca gag gtc	tca gaa ggg acc	gag gtg aca gtg aag 912
173	Ile Leu Thr	Lys Pro Glu Val	Ser Glu Gly Thr	Glu Val Thr Val Lys
174	290	295	300	
176	tgt gag gcc	cac cct aga gcc	aag gtg acg ctg	aat ggg gtt cca gcc 960
177	Cys Glu Ala	His Pro Arg Ala	Lys Val Thr Leu	Asn Gly Val Pro Ala
178	305	310	315	320
180	cag cca gtg	ggc ccg agg gtc	cag ctc ctg ctg	aag gcc acc cca gag 1008
181	Gln Pro Val	Gly Pro Arg Val	Gln Leu Leu Leu	Lys Ala Thr Pro Glu
182	325	330	335	
184	gac aac ggg	cgc agc ttc tcc	tgc tct gca acc	ctg gag gtg gcc ggc 1056
185	Asp Asn Gly	Arg Ser Phe Ser	Cys Ser Ala Thr	Leu Glu Val Ala Gly
186	340	345	350	
188	cag ctt ata	cac aag aac cag	acc cgg gag ctt	cgt gtc ctg tat ggc 1104
189	Gln Leu Ile	His Lys Asn Gln	Thr Arg Glu Leu	Arg Val Leu Tyr Gly
190	355	360	365	
192	ccc cga ctg	gac gag agg gat	tgt ccg gga aac	tgg acg tgg cca gaa 1152
193	Pro Arg Leu	Asp Glu Arg Asp	Cys Pro Gly Asn	Trp Thr Trp Pro Glu
194	370	375	380	
196	aat tcc cag	cag act cca atg	tgc cag gct tcg	ggg aac cca ttg ccc 1200
197	Asn Ser Gln	Gln Thr Pro Met	Cys Gln Ala Ser	Gly Asn Pro Leu Pro
198	385	390	395	400
200	gag ctc aag	tgt cta aag gat	ggc act ttc cca	ctg ccc gtc ggg gaa 1248
201	Glu Leu Lys	Cys Leu Lys Asp	Gly Thr Phe Pro	Leu Pro Val Gly Glu
202	405	410	415	
204	tca gtg act	gtc act cga gat	ctt gag ggc acc	tac ctc tgt cgg gcc 1296
205	Ser Val Thr	Val Thr Arg Asp	Leu Glu Gly Thr	Tyr Leu Cys Arg Ala
206	420	425	430	
208	agg agc act	caa ggg gag gtc	acc cgc aag gtg	acc gtg aat gtg ctc 1344
209	Arg Ser Thr	Gln Gly Glu Val	Thr Arg Lys Val	Thr Val Asn Val Leu
210	435	440	445	

## RAW SEQUENCE LISTING

DATE: 08/04/2004

PATENT APPLICATION: US/09/942,252C

TIME: 16:05:17

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\08042004\I942252C.raw

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212 tcc ccc cgg tat gag att gtc atc atc act gtg gta gca gcc gca gtc 1392
213 Ser Pro Arg Tyr Glu Ile Val Ile Ile Thr Val Val Ala Ala Val
214 450 455 460
216 ata atg ggc act gca ggc ctc agc acg tac ctc tat aac cgc cag cgg 1440
217 Ile Met Gly Thr Ala Gly Leu Ser Thr Tyr Leu Tyr Asn Arg Gln Arg
218 465 470 475 480
220 aag atc agg aaa tac aga cta caa cag gct caa aaa ggg acc ccc atg 1488
221 Lys Ile Arg Lys Tyr Arg Leu Gln Gln Ala Gln Lys Gly Thr Pro Met
222 485 490 495
224 aaa ccg aac aca caa gcc acg cct ccc tga 1518
225 Lys Pro Asn Thr Gln Ala Thr Pro Pro
226 500 505
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230 <211> LENGTH: 505
231 <212> TYPE: PRT
232 <213> ORGANISM: Pan troglodytes
234 <400> SEQUENCE: 3
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236 1 5 10 15
238 Val Gln Val Thr Cys Ser Thr Ser Cys Asp Gln Pro Asp Leu Leu Gly
239 20 25 30
241 Ile Glu Thr Pro Leu Pro Lys Lys Glu Leu Leu Leu Gly Gly Asn Asn
242 35 40 45
244 Trp Lys Val Tyr Glu Leu Ser Asn Val Gln Glu Asp Ser Gln Pro Met
245 50 55 60
247 Cys Tyr Ser Asn Cys Pro Asp Gly Gln Ser Thr Ala Lys Thr Phe Leu
248 65 70 75 80
250 Thr Val Tyr Trp Thr Pro Glu Arg Val Glu Leu Ala Pro Leu Pro Ser
251 85 90 95
253 Trp Gln Pro Val Gly Lys Asp Leu Thr Leu Arg Cys Gln Val Glu Gly
254 100 105 110
256 Gly Ala Pro Arg Ala Asn Leu Thr Val Val Leu Leu Arg Gly Glu Lys
257 115 120 125
259 Glu Leu Lys Arg Glu Pro Ala Val Gly Glu Pro Ala Glu Val Thr Thr
260 130 135 140
262 Thr Val Leu Val Glu Arg Asp His His Gly Ala Asn Phe Ser Cys Arg
263 145 150 155 160
265 Thr Glu Leu Asp Leu Arg Pro Gln Gly Leu Gln Leu Phe Glu Asn Thr
266 165 170 175
268 Ser Ala Pro His Gln Leu Gln Thr Phe Val Leu Pro Ala Thr Pro Pro
269 180 185 190
271 Gln Leu Val Ser Pro Arg Val Leu Glu Val Asp Thr Gln Gly Thr Val
272 195 200 205
274 Val Cys Ser Leu Asp Gly Leu Phe Pro Val Ser Glu Ala Gln Val His
275 210 215 220
277 Leu Ala Leu Gly Asp Gln Arg Leu Asn Pro Thr Val Thr Tyr Gly Asn
278 225 230 235 240
280 Asp Ser Phe Ser Ala Lys Ala Ser Val Ser Val Thr Ala Glu Asp Glu
281 245 250 255

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## RAW SEQUENCE LISTING

DATE: 08/04/2004

PATENT APPLICATION: US/09/942,252C

TIME: 16:05:17

Input Set : A:\PTO.AMC.txt

Output Set : N:\CRF4\08042004\I942252C.raw

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283 Gly Thr Gln Arg Leu Thr Cys Ala Val Ile Leu Gly Asn Gln Ser Arg
284           260           265           270
286 Glu Thr Leu Gln Thr Val Thr Ile Tyr Ser Phe Pro Ala Pro Asn Val
287           275           280           285
289 Ile Leu Thr Lys Pro Glu Val Ser Glu Gly Thr Glu Val Thr Val Lys
290           290           295           300
292 Cys Glu Ala His Pro Arg Ala Lys Val Thr Leu Asn Gly Val Pro Ala
293 305           310           315           320
295 Gln Pro Val Gly Pro Arg Val Gln Leu Leu Leu Lys Ala Thr Pro Glu
296           325           330           335
298 Asp Asn Gly Arg Ser Phe Ser Cys Ser Ala Thr Leu Glu Val Ala Gly
299           340           345           350
301 Gln Leu Ile His Lys Asn Gln Thr Arg Glu Leu Arg Val Leu Tyr Gly
302           355           360           365
304 Pro Arg Leu Asp Glu Arg Asp Cys Pro Gly Asn Trp Thr Trp Pro Glu
305           370           375           380
307 Asn Ser Gln Gln Thr Pro Met Cys Gln Ala Ser Gly Asn Pro Leu Pro
308 385           390           395           400
310 Glu Leu Lys Cys Leu Lys Asp Gly Thr Phe Pro Leu Pro Val Gly Glu
311           405           410           415
313 Ser Val Thr Val Thr Arg Asp Leu Glu Gly Thr Tyr Leu Cys Arg Ala
314           420           425           430
316 Arg Ser Thr Gln Gly Glu Val Thr Arg Lys Val Thr Val Asn Val Leu
317           435           440           445
319 Ser Pro Arg Tyr Glu Ile Val Ile Ile Thr Val Val Ala Ala Ala Val
320           450           455           460
322 Ile Met Gly Thr Ala Gly Leu Ser Thr Tyr Leu Tyr Asn Arg Gln Arg
323 465           470           475           480
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329           500           505
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333 <211> LENGTH: 1515
334 <212> TYPE: DNA
335 <213> ORGANISM: Gorilla gorilla
337 <400> SEQUENCE: 4
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342 gagttgctcc tgcttgggaa caaccagaag gtgtatgaac tgagcaatgt gcaagaagat 180
344 agccaaccaa tgtgttattc aaactgccct gatgggcagt caacagctaa aaccttcctc 240
346 accgtgtact ggactccaga acgggtggaa ctggcacccc tccccctctg gcagccagtg 300
348 ggcaaggacc ttaccctacg ctgccaggtg gaggggtggg caccctgggc caacctcatc 360
350 gtggtgctgc tccgtgggga ggaggagctg aaacgggagc cagctgtggg ggagcccgcc 420
352 gaggtcacga ccacgggtgcc ggtggagaaa gatcaccatg gagccaattt cttgtgccgc 480
354 actgaactgg acctgcggcc ccaagggtcg aagctgtttg agaacacctc ggccccctac 540
356 cagctccaaa cttttgtcct gccagcgact cccccacaac ttgtcagccc tcgggtccta 600
358 gaggtggaca cgcaggggac tgtggtctgt tccctggacg ggctgttccc agtctcggag 660
360 gccaggtcc acctggcact gggggaccag aggttgaacc ccacagtcac ctatggcaac 720

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**VERIFICATION SUMMARY**

DATE: 08/04/2004

PATENT APPLICATION: US/09/942,252C

TIME: 16:05:18

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\08042004\I942252C.raw

L:12 M:270 C: Current Application Number differs, Replaced Application Number

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date



1600

## RAW SEQUENCE LISTING

DATE: 08/02/2004

PATENT APPLICATION: US/09/942,252C

TIME: 15:05:37

Input Set : A:\09942252Sequence Listing.txt

Output Set: N:\CRF4\08022004\I942252C.raw

3 <110> APPLICANT: Messier, Walter  
 4 Sikela, James M  
 6 <120> TITLE OF INVENTION: Methods to Identify Polynucleotide and Polypeptide  
 7 Sequences Which May Be Associated with Physiological  
 8 and Medical Conditions  
 10 <130> FILE REFERENCE: GENO 200.2/CIP  
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/942,252C  
 C--> 13 <141> CURRENT FILING DATE: 2001-08-28  
 15 <150> PRIOR APPLICATION NUMBER: 09/591,435  
 16 <151> PRIOR FILING DATE: 2000-06-09  
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 19 <151> PRIOR FILING DATE: 1999-01-29  
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 22 <151> PRIOR FILING DATE: 1998-01-30  
 24 <150> PRIOR APPLICATION NUMBER: 60/098,987  
 25 <151> PRIOR FILING DATE: 1998-09-02  
 27 <160> NUMBER OF SEQ ID NOS: 30  
 29 <170> SOFTWARE: PatentIn Ver. 2.0

Does Not Comply  
 Corrected Datasheet Needed

## ERRORED SEQUENCES

1466 <210> SEQ ID NO: 16  
 1467 <211> LENGTH: 1207  
 1468 <212> TYPE: PRT  
 1469 <213> ORGANISM: Homo sapiens  
 1471 <400> SEQUENCE: 16  
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 1473 1 5 10 15  
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 1476 20 25 30  
 1478 Leu Val Met Glu Phe Cys Pro Leu Gly Asp Leu Lys Gly Tyr Leu Arg  
 1479 35 40 45  
 1481 Ser Cys Arg Val Ala Glu Ser Met Ala Pro Asp Pro Arg Thr Leu Gln  
 1482 50 55 60  
 1484 Arg Met Ala Cys Glu Val Ala Cys Gly Val Leu His Leu His Arg Asn  
 1485 65 70 75 80  
 1487 Asn Phe Val His Ser Asp Leu Ala Leu Arg Asn Cys Leu Leu Thr Ala  
 1488 85 90 95  
 1490 Asp Leu Thr Val Lys Ile Gly Asp Tyr Gly Leu Ala His Cys Lys Tyr  
 1491 100 105 110  
 1493 Arg Glu Asp Tyr Phe Val Thr Ala Asp Gln Leu Trp Val Pro Leu Arg  
 1494 115 120 125

## RAW SEQUENCE LISTING

DATE: 08/02/2004

PATENT APPLICATION: US/09/942,252C

TIME: 15:05:37

Input Set : A:\09942252Sequence Listing.txt

Output Set: N:\CRF4\08022004\I942252C.raw

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1499 Val Asp Gln Thr Lys Ser Gly Asn Val Trp Ser Leu Gly Val Thr Ile
1500 145                      150                      155                      160
1502 Trp Glu Leu Phe Glu Leu Gly Thr Gln Pro Tyr Pro Gln His Ser Asp
1503                      165                      170                      175
1505 Gln Gln Val Leu Ala Tyr Thr Val Arg Glu Gln Gln Leu Lys Leu Pro
1506                      180                      185                      190
1508 Lys Pro Gln Leu Gln Leu Thr Leu Ser Asp Arg Trp Tyr Glu Val Met
1509                      195                      200                      205
1511 Gln Phe Cys Trp Leu Gln Pro Glu Gln Arg Pro Thr Ala Glu Glu Val
1512      210                      215                      220
1514 His Leu Leu Leu Ser Tyr Leu Cys Ala Lys Gly Ala Thr Glu Ala Glu
1515 225                      230                      235                      240
1517 Glu Glu Phe Glu Arg Trp Arg Ser Leu Arg Pro Gly Gly Gly Gly
1518                      245                      250                      255
1520 Val Gly Pro Gly Pro Gly Ala Ala Gly Pro Met Leu Gly Gly Val Val
1521                      260                      265                      270
1523 Glu Leu Ala Ala Ala Ser Ser Phe Pro Leu Leu Glu Gln Phe Ala Gly
1524                      275                      280                      285
1526 Asp Gly Phe His Ala Asp Gly Asp Asp Val Leu Thr Val Thr Glu Thr
1527      290                      295                      300
1529 Ser Arg Gly Leu Asn Phe Glu Tyr Lys Trp Glu Ala Gly Arg Gly Ala
1530 305                      310                      315                      320
1532 Glu Ala Phe Pro Ala Thr Leu Ser Pro Gly Arg Thr Ala Arg Leu Gln
1533                      325                      330                      335
1535 Glu Leu Cys Ala Pro Asp Gly Ala Pro Pro Gly Val Val Pro Val Leu
1536                      340                      345                      350
1538 Ser Ala His Ser Pro Ser Leu Gly Ser Glu Tyr Phe Ile Arg Leu Glu
1539      355                      360                      365
1541 Glu Ala Ala Pro Ala Ala Gly His Asp Pro Asp Cys Ala Gly Cys Ala
1542      370                      375                      380
1544 Pro Ser Pro Pro Ala Thr Ala Asp Gln Asp Asp Asp Ser Asp Gly Ser
1545 385                      390                      395                      400
1547 Thr Ala Ala Ser Leu Ala Met Glu Pro Leu Leu Gly His Gly Pro Pro
1548                      405                      410                      415
1550 Val Asp Val Pro Trp Gly Arg Gly Asp His Tyr Pro Arg Arg Ser Leu
1551                      420                      425                      430
1553 Ala Arg Asp Pro Leu Cys Pro Ser Arg Ser Pro Ser Pro Ser Ala Gly
1554      435                      440                      445
1556 Pro Leu Ser Leu Ala Glu Gly Gly Ala Glu Asp Ala Asp Trp Gly Val
1557      450                      455                      460
1559 Ala Ala Phe Cys Pro Ala Phe Phe Glu Asp Pro Leu Gly Thr Ser Pro
1560 465                      470                      475                      480
1562 Leu Gly Ser Ser Gly Ala Pro Pro Leu Pro Leu Thr Gly Glu Asp Glu
1563                      485                      490                      495
1565 Leu Glu Glu Val Gly Ala Arg Arg Ala Ala Gln Arg Gly His Trp Arg
1566      500                      505                      510
1568 Ser Asn Val Ser Ala Asn Asn Asn Ser Gly Ser Arg Cys Pro Glu Ser

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## RAW SEQUENCE LISTING

DATE: 08/02/2004

PATENT APPLICATION: US/09/942,252C

TIME: 15:05:37

Input Set : A:\09942252Sequence Listing.txt

Output Set: N:\CRF4\08022004\I942252C.raw

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1572          530          535          540
1574 Lys Gln Thr Pro Arg Ala Ser Pro Glu Pro Gly Tyr Pro Gly Glu Pro
1575 545          550          555          560
1577 Leu Leu Gly Leu Gln Ala Ala Ser Ala Gln Glu Pro Gly Cys Cys Pro
1578          565          570          575
1580 Gly Leu Pro His Leu Cys Ser Ala Gln Gly Leu Ala Pro Ala Pro Cys
1581          580          585          590
1583 Leu Val Thr Pro Ser Trp Thr Glu Thr Ala Ser Ser Gly Gly Asp His
1584          595          600          605
1586 Pro Gln Ala Glu Pro Lys Leu Ala Thr Glu Ala Glu Gly Thr Thr Gly
1587          610          615          620
1589 Pro Arg Leu Pro Leu Pro Ser Val Pro Ser Pro Ser Gln Glu Gly Ala
1590 625          630          635          640
1592 Pro Leu Pro Ser Glu Glu Ala Ser Ala Pro Asp Ala Pro Asp Ala Leu
1593          645          650          655
1595 Pro Asp Ser Pro Thr Pro Ala Thr Gly Gly Glu Val Ser Ala Ile Lys
1596          660          665          670
1598 Leu Ala Ser Ala Leu Asn Gly Ser Ser Ser Ser Pro Glu Val Glu Ala
1599          675          680          685
1601 Pro Ser Ser Glu Asp Glu Asp Thr Ala Glu Ala Thr Ser Gly Ile Phe
1602          690          695          700
1604 Thr Asp Thr Ser Ser Asp Gly Leu Gln Ala Arg Arg Pro Asp Val Val
1605 705          710          715          720
1607 Pro Ala Phe Arg Ser Leu Gln Lys Gln Val Gly Thr Pro Asp Ser Leu
1608          725          730          735
1610 Asp Ser Leu Asp Ile Pro Ser Ser Ala Ser Asp Gly Gly Tyr Glu Val
1611          740          745          750
1613 Phe Ser Pro Ser Ala Thr Gly Pro Ser Gly Gly Gln Pro Arg Ala Leu
1614          755          760          765
1616 Asp Ser Gly Tyr Asp Thr Glu Asn Tyr Glu Ser Pro Glu Phe Val Leu
1617          770          775          780
1619 Lys Glu Ala Gln Glu Gly Cys Glu Pro Gln Ala Phe Ala Glu Leu Ala
1620 785          790          795          800
1622 Ser Glu Gly Glu Gly Pro Gly Pro Glu Thr Arg Leu Ser Thr Ser Leu
1623          805          810          815
1625 Ser Gly Leu Asn Glu Lys Asn Pro Tyr Arg Asp Ser Ala Tyr Phe Ser
1626          820          825          830
1628 Asp Leu Glu Ala Glu Ala Glu Ala Thr Ser Gly Pro Glu Lys Lys Cys
1629          835          840          845
1631 Gly Gly Asp Arg Ala Pro Gly Pro Glu Leu Gly Leu Pro Ser Thr Gly
1632          850          855          860
1634 Gln Pro Ser Glu Gln Val Cys Leu Arg Pro Gly Val Ser Gly Glu Ala
1635 865          870          875          880
1637 Gln Gly Ser Gly Pro Gly Glu Val Leu Pro Pro Leu Leu Gln Leu Glu
1638          885          890          895
1640 Gly Ser Ser Pro Glu Pro Ser Thr Cys Pro Ser Gly Leu Val Pro Glu
1641          900          905          910

```

## RAW SEQUENCE LISTING

DATE: 08/02/2004

PATENT APPLICATION: US/09/942,252C

TIME: 15:05:37

Input Set : A:\09942252Sequence Listing.txt

Output Set: N:\CRF4\08022004\I942252C.raw

```

1643 Pro Pro Glu Pro Gln Gly Pro Ala Lys Val Arg Pro Gly Pro Ser Pro
1644          915                      920                      925
1646 Ser Cys Ser Gln Phe Phe Leu Leu Thr Pro Val Pro Leu Arg Ser Glu
1647          930                      935                      940
1649 Gly Asn Ser Ser Glu Phe Gln Gly Pro Pro Gly Leu Leu Ser Gly Pro
1650 945                      950                      955                      960
1652 Ala Pro Gln Lys Arg Met Gly Gly Pro Gly Thr Pro Arg Ala Pro Leu
1653                      965                      970                      975
1655 Arg Leu Ala Leu Pro Gly Leu Pro Ala Ala Leu Glu Gly Arg Pro Glu
1656                      980                      985                      990
1658 Glu Glu Glu Glu Asp Ser Glu Asp Ser Asp Glu Ser Asp Glu Glu Leu
1659          995                      1000                      1005
1661 Arg Cys Tyr Ser Val Gln Glu Pro Ser Glu Asp Ser Glu Glu Glu Ala
1662          1010                      1015                      1020
1664 Pro Ala Val Pro Val Val Ala Glu Ser Gln Ser Ala Arg Asn Leu
E--> 1665 025/1025          1030          1035          1040
1667 Arg Ser Leu Leu Lys Met Pro Ser Leu Leu Ser Glu Thr Phe Cys Glu
1668          1045                      1050                      1055
1670 Asp Leu Glu Arg Lys Lys Lys Ala Val Ser Phe Phe Asp Asp Val Thr
1671          1060                      1065                      1070
1673 Val Tyr Leu Phe Asp Gln Glu Ser Pro Thr Arg Glu Leu Gly Glu Pro
1674          1075                      1080                      1085
1676 Phe Pro Gly Ala Lys Glu Ser Pro Pro Thr Phe Leu Arg Gly Ser Pro
1677          1090                      1095                      1100
1679 Gly Ser Pro Ser Ala Pro Asn Arg Pro Gln Gln Ala Asp Gly Ser Pro
E--> 1680 105/1105          1110          1115          1120
1682 Asn Gly Ser Thr Ala Glu Glu Gly Gly Gly Phe Ala Trp Asp Asp Asp
1683          1125                      1130                      1135
1685 Phe Pro Leu Met Thr Ala Lys Ala Ala Phe Ala Met Ala Leu Asp Pro
1686          1140                      1145                      1150
1688 Ala Ala Pro Ala Pro Ala Ala Pro Thr Pro Thr Pro Ala Pro Phe Ser
1689          1155                      1160                      1165
1691 Arg Phe Thr Val Ser Pro Ala Pro Thr Ser Arg Phe Ser Ile Thr His
1692          1170                      1175                      1180
1694 Val Ser Asp Ser Asp Ala Glu Ser Lys Arg Gly Pro Glu Ala Gly Ala
E--> 1695 185/1185          1190          1195          1200
1697 Gly Gly Glu Ser Lys Glu Ala
1698          1205

```

**VERIFICATION SUMMARY**

DATE: 08/02/2004

PATENT APPLICATION: US/09/942,252C

TIME: 15:05:38

Input Set : A:\09942252Sequence Listing.txt

Output Set: N:\CRF4\08022004\I942252C.raw

L:12 M:270 C: Current Application Number differs, Replaced Application Number

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:1665 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:16

M:332 Repeated in SeqNo=16